Satellite 100CS Technical specifications







Processor	Model	Processor	Clock speeds
	Satellite 100CS	Intel Pentium, 75 MHz	75 MHz internally
	Tachnalagu	(2.9-volt core usingVoltage	50 MHz externally Reduction
	Technology)		
System memory	Memory type	Amount(Access speed)	Data bus width
	EDO RAM	8 MB (70 nanoseconds)	64-bit
	Maximum memory expansion (all EDO)	40 MB (70 nanoseconds)	64-bit
	BIOS Flash EPROM	128 KB (150 nanoseconds)	8-bit
	Video RAM	1 MB (60 nanoseconds)	32-bit
	Cache memory	16 KB on CPU chip (8 KB instructions + 8 KB writ	64-bit re-back)
Memory technology	Technology	3.3-volt	
	No. of expansion slots	1	
	Expansion module sizes	8 MB, 16 MB, 32 MB (all EDC	O RAM)
Memory map	Address	Size	Usage
	00000000 - 0009FFFF	640	System woking memory
	000A0000 - 000BFFFF	128	Video RAM area
	000E0000 - 000EFFFF	64	Video BIOS (RAM shadow)
	000F0000 - 000FFFFF	64	System BIOS (RAM shadow)
	00100000 - rest of memory	up to 40 MB	System extended memory
	FFFE0000 - FFFEFFF	64	SM-RAM in SM mode

64

0F0000 - 0FFFFF

System BIOS ROM

Diskette drive	Specification	High setting	Low setting	
	Media supported	3.5 inch 2HD	3.5 inch 2DD	
	Storage capacity	1.44 MB	720 KB	
	Rotation	300 rpm	300 rpm	
	Transfer rate	500 Kbit per second	250 Kbit per second	
	Bytes per sector	512	512	
	Sectors per track	18	9	
Hard disk drive	Formatted capacity	520 million bytes (500 ME	3)	
	Data transfer rate to media	< 44.9 Mbits/sec		
	Average seek time	13 ms typical		
	Track-to-track seek time	3 ms typical		
	Drive rotation	4,200 rpm		
	No. of disks	2		
	No. of read/write heads	16		
	Coding	8-9 RLL		
	Bytes per sector	512		
	Interleave	1:1		
	Interface	Enhanced IDE (AT compa	atible task file)	
Screen	Screen type	Advanced STN colour		
	Number of dots	640 x 480		
	Dot pitch	0.33 mm (H) x 0.33 mm (V)		
	Display area	217.2 mm (H) x 164.4 mm (V)		
	Diagonal	10.4 inch		
	Contrast ratio	20:1 (typical)		
	Colours	up to 256		
	Response rise/fall	250 ms / 120 ms		
	LCD brightness in AC op.	85 NIT		
	LCD brightness in hottom	EO NIT		

50 NIT

LCD brightness in battery op.

Graphics adaptor	Video display	Resolution	Max. refresh rate	Max. no. of colours
	Internal display VGA	640 x 480	70 Hz	16 colours
	Internal display SVGA	640 x 480	75 Hz (222 K col.)	up to 256 colours
	External SVGA	640 x 480	75 Hz (256 K col.)	up to 16.7 mill. colours
	External SVGA	800 x 600	75 Hz (256 K col.)	up to 64 K colours
	External SVGA	1024 x 768	75 Hz (256 K col.)	up to 256 colours
Physical dimensions	Weight	Size (W, L, H)	Siz	e (Inches)
	3.2 kg	299 x 230 x 55	5 mm (11	.7" x 9.0" x 2.1")
Battery types	Main	Back-up	RT	
	NiH₂	NiH ₂	NiF	
	12 V x 2.600 mAH	7.2 V x 110 m/	AH 3.6	V x 30 mAH
Resume battery back-up	Main	Back-up	RT	<u> </u>
	4 -5 days (typical)	4 hours	1 m	nonth
Battery life	Maximum life	4.0 hrs. (PC Magazine's Rundown V2.0)		V2.0)
Integrated AC adaptor	Input voltage	100 - 240 V AC	C, self-adjusting	
	Frequency	50 - 60 Hz		
	Output voltage	18 V		
	Output current	1.7 A		
	Power dissipation	30 W		
	Weight	340 g		

Connectivity & expansion

PC ports	Card Station ports	Expansion
Serial	Serial	PC: 1 PC Card slot (PCMCIA 2.0) for
		2 Type II cards or 1 Type III card
Parallel (ECP)	Parallel (ECP)	PC: Internal memory module slot
(S)VGA monitor	(S)VGA monitor	Card Station: 2 Type III PC Card
	slots (PCMCIA 2.0)	
Card Station connector	Notebook connector	
PS/2 Mouse/Keyboard	PS/2 mouse and PS/2 keyboard	

Bundled software

Either Microsoft Windows 95 or MS-DOS 6.22 & MS Windows for Workgroups 3.11 can be selected. By choosing one operating system, the other will be deleted from the computer.

If you select Microsoft Windows95

- Microsoft Windows 95
- Toshiba utilities and drivers for Microsoft Windows5
- Hypertext on-line manual (Satellite 100CS User's Manual)
- Hypertext on-line help (Microsoft Windows95)

If you select MS-DOS & MS Windows for Workgroups:

- MS-DOS and MS Windows for Workgroups
- Toshiba utilities and drivers for MS Windows for Workgroups
- PC Card and Socket services
- Hypertext on-line manual (Satellite 100CS User's Manual)
- Hypertext on-line manual (MS Windows for Workgroups)
- Hypertext on-line help (User's Guide for MS Windows for Workgroups)

Environmental conditions

	Operating	Non-operating
Temperature	5° C to 35° C	-20° C to 65° C
Thermal Gradient	20° C/hour	20° C/hour
Relative Humidity	20% to 80%	10% to 90%
	non-condensing	non-condensing
Altitude	-60 to 3,000 m *	-60 to 10,000 m
(relative to sea level)	(-200 to 10,000 feet) *	(-200 to 30,000 feet)
Shock	10 G	60 G
Vibration	0.5 G	1 G

^{*} Aeroplane cabin pressures simulate low altitudes, so flying higher causes no restrictions.

Certification

012 USA

IEC 950	Europe
NEMKO	Norway
NEI	Norway
DEMKO	Denmark
SEMKO	Sweden
SEV	Switzerland
FIMKO	Finland
VDE 0878 level B	Germany/ EC
VDE 0875 level B	Germany
FCC part 15 class B	USA
CSA 950/223	Canada
I. Canada	Canada
SASO	Middle East
GOST	Russia
CISPR Pub. 22 (EN 55022)	Europe/CE Mark

Satellite 100CS Features & Benefits







	FEATURE	Benefit
Microprocessor	Intel Pentium 75 MHz	 Provides a high speed, 64-bit external bus to cope with the most advanced software applications and GUIs
	Integrated numeric co-processor	 Faster processing of maths- intensive applications
	16 KB integrated cache	Speeds up transfer of data between CPU and memory
	2.9-volt core technology	Reduces the amount of power consumed and heat generated
Memory	Standard 8 MB EDO RAM	 8 MB is the necessary amount of RAM to run powerful, memory intensive software and operating systems at a comfortable speed
	128 KB Flash EPROM	 Flash EPROM allows users to quickly update BIOS if necessary without returning machine to supplier
	Shadow ROM	Enhances computer performance
	8 MB, 16 MB, or 32 MB memory modules (optional)	 Faster manipulation of software and data stored in memory User can upgrade memory when the
Internal FDD drive	3.5" diskette drive	Reads from and writes to 3.5" 720
		KB and 1.44 MB diskettes
Hard disk drive	520 million byte hard disk drive	 Provides large storage capacity for multiple programs and data
	• ≤ 13 ms average access time and 1:1 interleave	 Fast access to programs and data stored on hard disk
	 Low-power consumption modes 	 Maximise battery operating life
Display	Advanced STN colour screen	 Fast screen build due to dual scan technology
	• 26.4 cm (10.4")	 Comfortable working size Excellent for presentation graphics and all Windows-based applications
	Adjustable viewing angle	Provides greater viewing comfort
	Feature	Benefit
Graphics sub-system	Very fast video controller	Excellent for smoother viewing of presentations or for work with design or DTP programs in the office

	Graphics adaptor	 256 colours at up to 640 x 480 dot resolution internally and up to 16.7
	Local-bus video	million colours externally • Speeds up the transfer of data to screen creating faster images and clearer video
	Video graphics accelerator	Ensures that graphics are generated quickly on screens to take advantage of Graphical User
	Dual display mode	 Interfaces such as Windows Allows user to show data and presentations to colleagues or customers while controlling the procedure from internal screen and keyboard.
Keyboard	Full-function keyboard	3 mm travel ensures faster,
	8 cursor keys	More comfortable data entry Allow fast, convenient cursor
	12 function keys and embedded keypad	 Provide desktop keyboard functionality and greater pro- ductivity
	8 hot keys	Allow users to change set-up features and use HotLock security direct from the keyboard
	Palm-rest for hands	Allows easy comfortable typing, even where there is no flat surface
Pointing device	Integrated MousePoint	Easy to use
-	pointing device with buttons built into palm-rest	 Precise control of cursor No protruding extras when
		travelling
Interfaces	SVGA colour monitor port	 Provides high-resolution (up to 1,024 x 768 dots) display of colour and graphics on external monitor
	Parallel (ECP) port	 Allows use of peripheral devices accepting parallel signals Permits easy data exchange with external storage devices Permits easy and rapid data exchange with external devices,
	Serial port	 (e.g. printer, network) A serial mouse can be attached to the serial port if the PS/2 port is occupied by an external keyboard Allows transmission of files betwee many types of devices incl. PCs, printers, PDAs, modems, telephones
	 PS/2 keyboard/mouse port 	Provides full keyboard versatility
	Feature	Benefit
Interfaces cont.	PS/2 keyboard/mouse port cont.	Allows faster, more accurate entry of numerical data via an external keyboard Allows use of 102-key keyboard when desired; increases productivit of operators familiar with 102-key

Multiple security system	System password security	Stops unauthorised access to data and software when power is switched on
Power system cont.	System reset button	 Allows rebooting without cycling power and without keyboard use (functions even when keyboard is closed)
	FEATURE	Benefit
	 Intelligent power supply with battery "gas gauge," invoked through pop- up menu 	 Electrical access world-wide Provides easy access for monitoing battery life
	Integrated AC adaptor	compatible software and passing on information to MTPM Reduces overall travel weight No cumbersome parts to carry
	 Advanced Power Management (APM) 	down to make most efficient use of available battery power • Determines power needs by communicating with APM
	Toshiba MaxTime Power Management (MTPM)	Offers long battery life Allows user to specify when power-hungry components should be shut
Power system	Lightweight removable, re- chargeable NiH ₂ battery packs	Environmentally friendlier to dispose of than nickel cadmium
	Rugged ABS casing	 Tough enough to take the knocks of life on the road Colour is integrated into material so casing doesn't require painting and there is no danger of paint peeling
200.g.		expandability of a high performance desktop in a lightweight, go- anywhere form
Design	A4 notebook design	Extra 2 Type III PCMCIA 2.0 slot via Card Station Provides the speed, power and
		Can be used for a wide range of communication and expansion modules such as modems, network adaptors, flash memory cards and removable hard disks
Expansion slots	2 Type II or 1 Type III PC Card slots (PCMCIA 2.0)	Provides mobile communication an expansion in a credit -card-sized format
	Card Station connector	 Increased productivity of operators familiar with using a mouse Provides an instant connection to a ports hooked up to base and the additional PC Card slots
		 Allows use of desktop pointing devices such as a mouse with graphics and presentation software Frees serial port for use by another device

	 HotLock security Kensington MicroSaver provision 	 Instant security with a screen blank and keyboard/mouse lock- out using the F1 hot key Hardware-based theft pre-
	- Kensington Microbaver provision	vention. The computer can be physically secured to an immovable object.
Special features	Flash EPROM	 Allows end user to easily update BIOS if needed
	 Plug and Play BIOS AutoResume with AutoSave 	 Ready for Windows® 95 Allows you to turn the notebook off without exiting from software application; powers-up where you left off. AutoSave provides security against possible data loss due to loss of battery power.
	Pop-up menu	 Lets you change the configuration options and monitor the battery power level
	Hot keys	Allow users to change various system configuration options any time, at the press of a key
	LED icon bar	Users can see the status of the machine even with lid closed
Toshiba support	1-year International Warranty Optional additional 2-year International Warranty	Provides confidence that the notebook will give lasting, reliable performance
Options	Carrying case with shoulder strap	Provides convenient space for computer, manuals, diskettes, file folders and other personal belongings
	 High-speed PC Card modem (PCMCIA 2.0) 8 MB, 16 MB and 32 MB EDO memory modules 	Provides easy access to information world-wide Convenient, easy-to-install memory expansion for memory-intensive software applications EDO memory expansion kits are readily available
	Extra battery pack	Increases battery life while on the road
	Quick battery charger	 One battery can be charged using the quick battery charger while the other is in use to extend overall operating time
	Key caps for European languages	 Users in virtually all countries work with most familiar set of keys
	FEATURE	Benefit
Options cont.	Card Station	 Connects to the back of the Satellite 100CS, providing Plug- and-Play connectivity and PC Card expansion Allows customers to leave everything connected in the office, and reconnection in one

- Locks into place with special hooks: very stable
- Includes a complete row of port options: PS/2 mouse, PS/2 keyboard, RGB, serial, parallel
- Two separate Type III slots
- Let you connect all your computers to one network
- PCMCIA Ethernet adaptor

Satellite 100CS Options







Article	PA Number
8 MB memory kit	PA2031U
16 MB memory kit	PA2032U
32 MB memory kit	PA2034U
Keycaps for German keyboard	PA2213GR
Keycaps for French keyboard	PA2213FR
Keycaps for Scandinavian keyboard	PA2213SC
Keycaps for Swiss keyboard	PA2213SL
Keycaps for Italian keyboard	PA2213IT
Keycaps for Spanish keyboard	PA2213SP
Keycaps for English keyboard	PA2213EN
NiH₂ battery pack	PA2437UY
Battery charger	PA2436UY
Carrying case	2713372PHI
Card Station	PA2711UX
PCMCIA Ethernet adaptor	PCE2-10BC